

HAZARDOUS INGREDIENTS

MATERIAL SAFETY DATA SHEET

FILLER METALS AND WELDING RODS

APPROVED BY U.S. DEPARTMENT OF LABOR "ESSENTIALLY SIMILAR" TO FORM LSB-00S-4)

POR SF
11.3.125.161
01/22/81

SECTION I		1/22/81
MANUFACTURER'S NAME Airco Welding Products	EMERGENCY TELEPHONE NO. (201) 464-8100	
ADDRESS (Number, Street, City, State, and ZIP Code) 575 Mountain Ave., Murray Hill, N. J. 07974		
TRADE NAME SMAW Electrode, Type 6013D Stk. Nos. 1318-2453, 2454, 2455, 2456.		
AWS CLASSIFICATION E6013		

SECTION II HAZARDOUS INGREDIENTS					
COVERING OR FLUX	WT. %	TLV (UNITS) ①	OTHER	WT. %	TLV (UNITS) ①
Rutile	10-20	10mg/m ³ ②	Core wire, AISI 1010 Steel	60-70	5 mg/m ³ ④
Cellulose	1-4	10mg/m ³ ②			
Base metal carbonates	1-4	10mg/m ³ ②			
Iron	1-4	5 mg/m ³			
Manganese	1-4	1 mg/m ³ ③			

① American Conference of Governmental Industrial Hygienists, 1979 ed.

② Nuisance.

③ As manganese fume.

④ As an oxide fume.

SECTION III PHYSICAL DATA
not applicable.

SECTION IV FIRE AND EXPLOSION HAZARD DATA
Welding arc and sparks can ignite combustible products.

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SECTION V HEALTH HAZARD DATA

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EFFECTS OF OVEREXPOSURE

Short term overexposure to welding fumes may result in dizziness, nausea, or dryness or irritation of nose, throat, or eyes.

EMERGENCY AND FIRST AID PROCEDURES

Remove to fresh air. Obtain medical attention.

SECTION VI REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	
INCOMPATIBILITY (Materials to avoid) None			
HAZARDOUS DECOMPOSITION PRODUCTS Primarily iron and iron oxide fume, secondarily other metal and metal oxide fumes of constituent metals, some CO, NO ₂ , and ozone.			
HAZARDOUS POLYMERIZATION	None		

SECTION VII SPILL OR LEAK PROCEDURES

Not applicable.

SECTION VIII SPECIAL PROTECTION INFORMATION (SEE NOTE)

RESPIRATORY PROTECTION (Specify type)

Not generally required outdoors or in open well ventilated areas. Use weld fume respirator or air supplied respirator when welding in confined space where local exhaust and/or ventilation does not keep exposure below TLV's. ①

VENTILATION

LOCAL EXHAUST
Desirable in semi-open areas to help keep exposures below TLV's. ①

MECHANICAL (General)
Essential in all areas where natural ventilation is not sufficient to keep exposures below TLV's. ①

EYE PROTECTION

Wear welding helmet with eye protection lens shade 10 or darker for electric welding, shade 5 or darker for gas welding.

PROTECTIVE GLOVES

Welder's Protective Gloves.

OTHER PROTECTIVE EQUIPMENT

Welder's leather protective aprons, leggings, boots, capes, shoulder covers, hard hats, screens, low reflectivity walls or booths.

SECTION IX SPECIAL PRECAUTIONS

Weld in well ventilated area. Avoid inhalation of welding fumes.

OTHER PRECAUTIONS

For additional safety information on welding and cutting, see American National Standard Z49.1-1973, Safety In Welding And Cutting, and the Welding Handbook, Volume 1, Chapter 9, Safe Practices In Welding And Cutting, both available from American Welding Society - 2501 N. W. 11th Ave., Miami, FL 33125.